

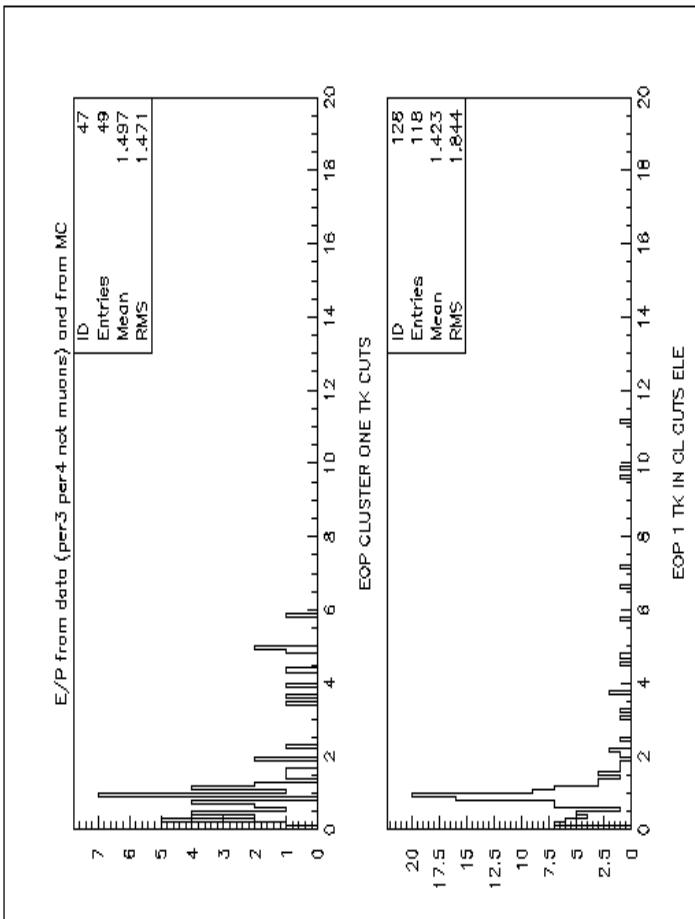
# Preliminary Study of DATA vs MC

## 1.E/P for Electrons MC-DATA

- E/P from per3 and per4 data that are characterized as not muons.

CUTS :

- One track per cluster
- Distance track form cluster  $< 0.2$  m
- Cluster Energy  $> 0.8$  GeV
- $0.8 <$  Track momentum  $< 10$  GeV



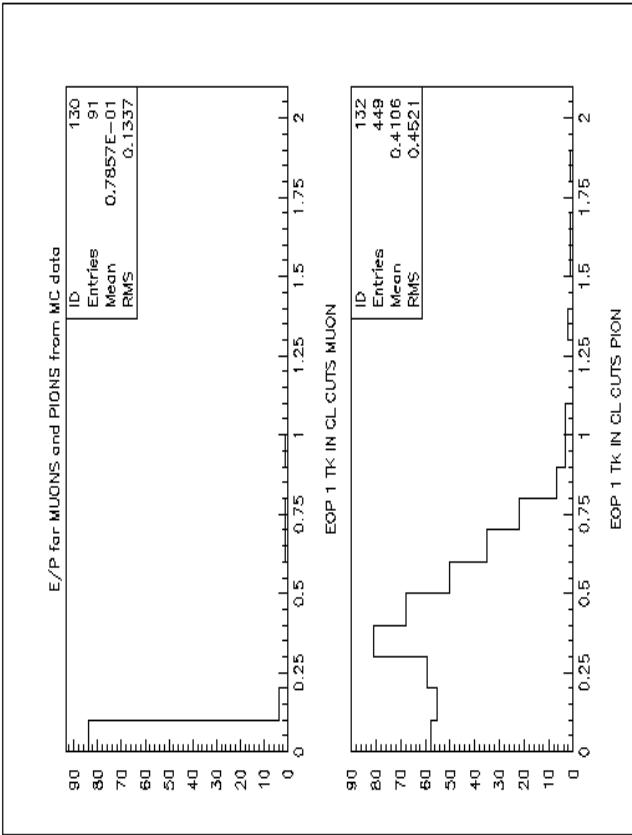
- E/P from MC file that are Electrons

CUTS :

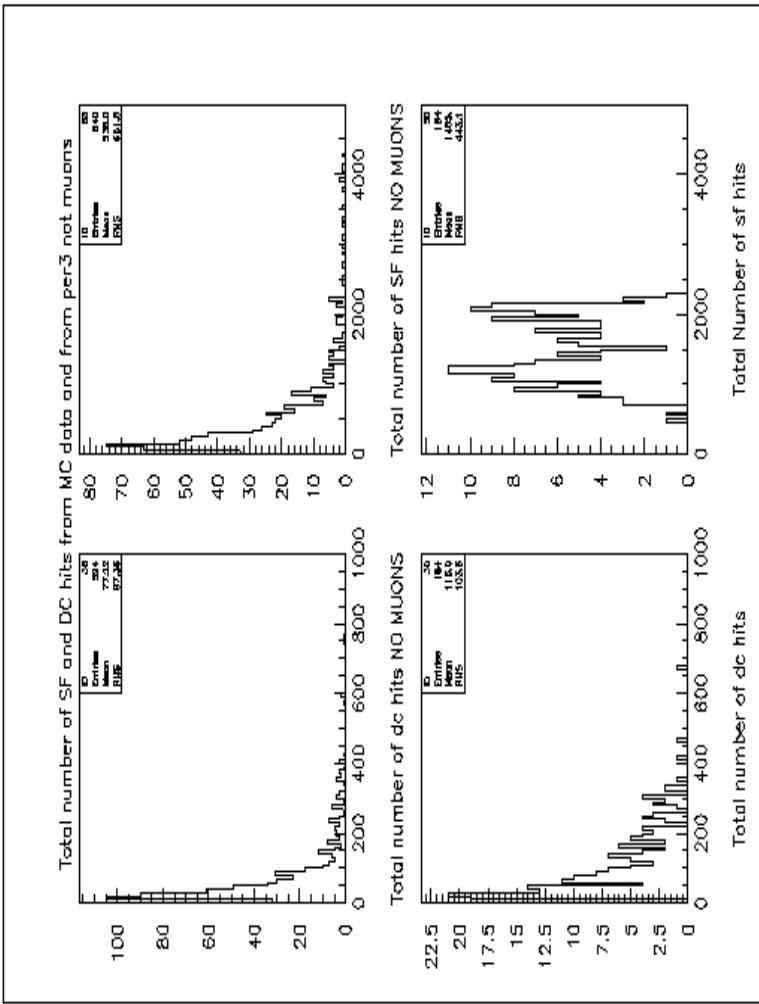
- The same as above
- Particle ID from Geant 3 or 2 ( $e^-, e^+$ )

## 2. E/P for Pions and Muons from MC

- E/P for Muons
- CUTS :
- 1) One track per cluster
  - 2) Distance track from cluster  $< 0.1$  m
  - 3) Particle ID from GEANT 6 or 5 ( $\mu^-, \mu^+$ )
- $E/P < 0.1$
- E/P for Pions
- CUTS :
- 1) One track per cluster
  - 2) Distance track from cluster  $< 0.2$  m
  - 3) Particle ID from GEANT 8 or 9 ( $\pi^+, \pi^-$ )
- $E/P \sim 0.4$

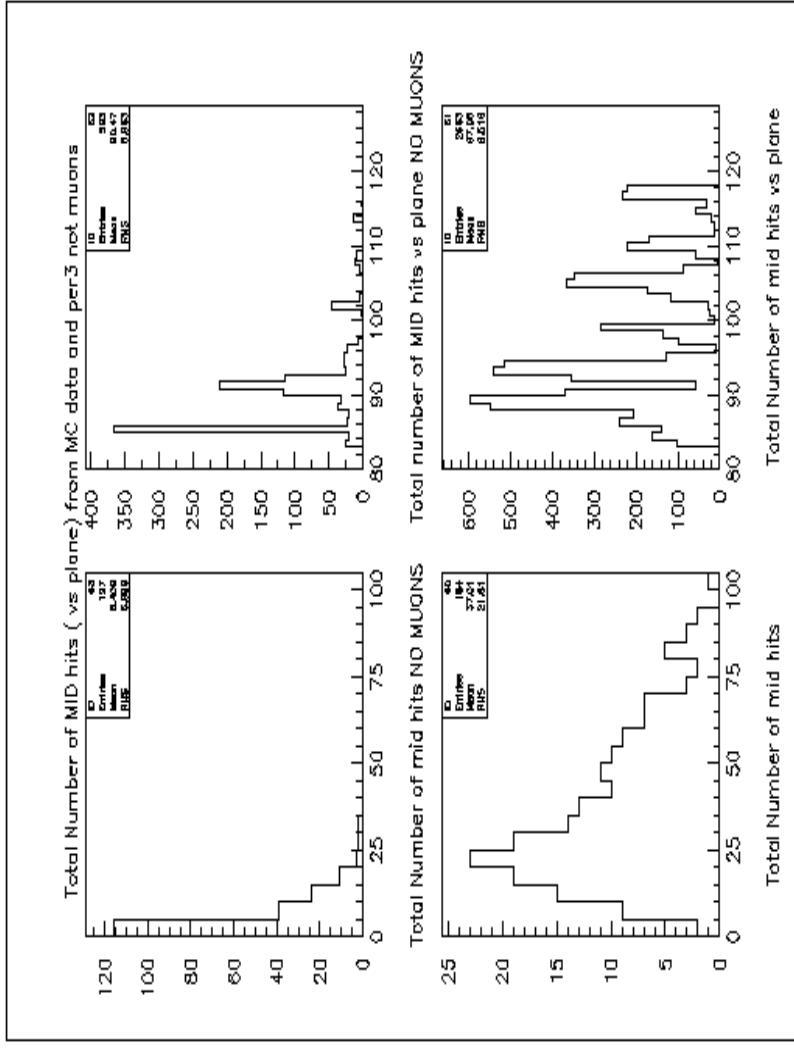


### 3. DC and SF hits from MC and DATA



- The behavior of the total number of DC hits looks similar for data and MC-data
- The behavior of the total number of SF hits is very different (?) between data and MC data.

## 4. MID hits from MC and DATA



- MC data that are NOT MUONS look more clear in the MID than real data (per3 not muons) probably reflecting the fact that there scintillating tubes are on all the time